

Amendments to the Claims

The following Listing of Claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (original): A fiber optic receiver, comprising:

a substrate;

a receiver optical sub-assembly (ROSA) mounted on the substrate and comprising a fiber optic connector for coupling to a mating connector of a fiber optic cable;

an opto-electronic transducer incorporated within the ROSA and configured to generate an electrical data signal in response to a received optical data signal;

a preamplifier circuit incorporated within the ROSA, coupled to the opto-electronic transducer, and operable to linearly amplify an electrical data signal generated by the opto-electronic transducer; and

an adjustable bandwidth post-amplifier circuit mounted on the substrate and coupled to an output of the preamplifier circuit.

Claim 2 (original): The fiber optic receiver of claim 1, wherein the post-amplifier circuit comprises a switch for setting a bandwidth response of the post-amplifier circuit in response to a received data rate control signal.

Claim 3 (original): The fiber optic receiver from claim 2, wherein the post-amplifier circuit further comprises a low-pass filter coupled to the switch.

Claim 4 (original): The fiber optic receiver of claim 3, wherein the low-pass filter comprises a capacitor.

Claim 5 (original): The fiber optic receiver of claim 1, wherein the post-amplifier circuit comprises a voltage-variable capacitor.

Claim 6 (original): The fiber optic receiver of claim 1, wherein the post-amplifier circuit comprises a wide bandwidth signal path and a narrow bandwidth signal path.

Claim 7 (original): The fiber optic receiver of claim 6, wherein the post-amplifier circuit further comprises a multiplexer configured to selectively present for output electrical data signals transmitted over one of the wide bandwidth signal path and the narrow bandwidth signal path in response to a received data rate control signal.

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Claim 8 (original): The fiber optic receiver of claim 6, wherein the wide bandwidth signal path comprises an amplifier with a relatively wide bandwidth response and the narrow bandwidth signal path comprises an amplifier with a relatively narrow bandwidth response.

Claim 9 (original): The fiber optic receiver of claim 1, wherein the post-amplifier comprises an input gain buffer coupled to the output of the preamplifier circuit.

Claim 10 (original): The fiber optic receiver of claim 1, wherein the pre-amplifier circuit is configured to linearly amplify an electrical data signal generated by the opto-electronic transducer over a specified range of optical data signal power.

Claim 11 (~~currently~~ amended): The fiber optic receiver of claim 1, wherein the ROSA comprises a header module mounted on the substrate and housing ~~configured to house~~ the opto-electronic transducer and the pre-amplifier circuit ~~preamplifier~~.

Claim 12 (original): The fiber optic receiver of claim 1, wherein the opto-electronic transducer comprises a photodiode.

Claim 13 (~~new~~): The fiber optic receiver of claim 1, wherein the adjustable bandwidth post-amplifier circuit is located outside of the ROSA.

Claim 14 (new): The fiber optic receiver of claim 6, wherein each of the wide bandwidth signal path and the narrow bandwidth signal path is connected to the output of the pre-amplifier circuit.

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Page : 4 of 15

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Claim 15 (new): The fiber optic receiver of claim 11, further comprising electrical connectors extending from the opto-electronic transducer and the pre-amplifier circuit, through the header module, and to the substrate.
